

# S-CRYOLOCK®

The simplest and most efficient system for vitrification



Available in 5 different colors:

Orange, Blue, Green, Yellow, and Clear

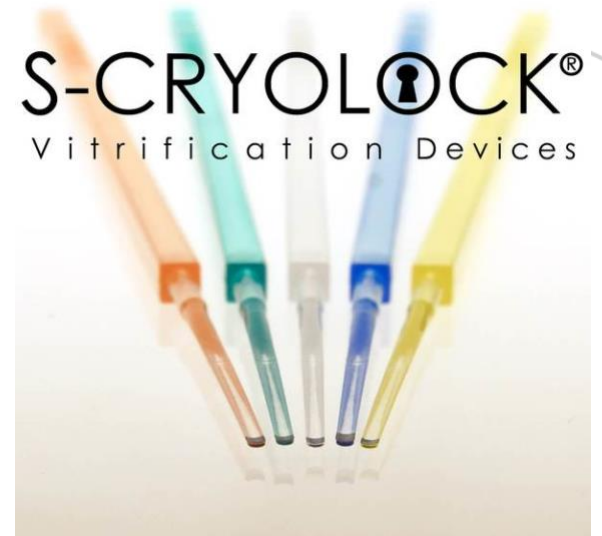
For more information go to:

[www.Cryolock.info](http://www.Cryolock.info)

Certificates of Analysis  
Available upon request

- 1 cell MEA  $\geq$  80% expand blast.
- Endotoxin LAL  $\leq$  2 EU/device
- Sterility: SAL10<sup>-6</sup>

Distributed by



# S-CRYOLOCK®

**Intended for Use:**

S-Cryolock® is an assisted reproduction labware intended to be used for holding, cryopreservation and storage of oocytes or embryos under liquid nitrogen (LN<sub>2</sub>)



Biotech Inc.

5975 Shiloh Rd, Suite 101, Alpharetta GA 30005

1-800-313-7793

System  
For Oocyte and/or  
Embryo Vitrification



2797



**EC REP**

Atlantico Systems Ltd  
34 Oldfield, Kingston  
Galway, Ireland  
+35391443609

**REF**

CL-R-CT

**STERILE R**

SAL 10<sup>-6</sup>



DO NOT  
RE-USE



## INSTRUCTIONS FOR USE

### Warnings

- All procedures must be performed under aseptic laboratory conditions.
- To avoid injuries with LN<sub>2</sub>, wear protective gloves and glasses.
- **Do not use S-Cryolock®** if: (a) vial or package is damaged, (b) tamper evident seal is broken or missing, (c) gamma indicator is yellow or missing, or (d) Expiration Date has expired.
- Before loading MII oocytes or embryos, verify integrity of S-Cryolock® under microscope view, discarding any S-Cryolocks with tips cracked, scratched brittle, with flash, bubbles, presence of foreign material or abnormal shape.
- For better survival rates, use MII Oocytes or good quality embryos. Use only with licensed vitrification media for the embryo stage being vitrified.
- Avoid direct contact of the tip of S-Cryolock® at any time; with any surface or material different to vitrification/warming media or pipettes holding the specimens.
- Always use the S-Cryolock® with its corresponding cap as it was originally packaged.
- To prevent accidental loss of embryos, perform loading and unloading of 1-cell embryos under microscope view, avoiding contact of the tip against other surfaces. (i.e. edge of petri dishes, or liquid nitrogen containers)
- Load specimens with a maximum of 1 µL of vitrification media, excessive media may cause low survival rates as well as attachment of the tip to the inner cavity of the S-Cryolock cap and possible breakage of tip or cap when warming.
- Immediately and before immersing the S-Cryolock® into LN<sub>2</sub>, carefully insert the S-Cryolock® Tip into the Cap twisting tightly until secure
- To avoid accidental rushing, or inappropriate time of exposure of specimens to vitrification solutions during loading and plunging into LN, perform ONLY 1 or 2 sets of embryos at a time.
- When plunging S-Cryolock® into LN<sub>2</sub> always use a separate fresh aliquot LN<sub>2</sub> per patient. Be careful when releasing the S-Cryolock under LN<sub>2</sub>, don't throw S-Cryolocks into LN<sub>2</sub>, place them gently into the corresponding goblets previously equilibrated under LN<sub>2</sub>.
- It is important that the container holding LN<sub>2</sub> be filled no less than 20cm. Not doing so could cause the user to add unnecessary stress to the S-Cryolock® device and potentially causing the device to break.
- Never leave several S-Cryolocks with oocytes or embryos loaded uncapped under LN.
- Do not re-sterilize or re-use S-Cryolock®. Device properties may change decreasing S-Cryolock® performance. Possible contamination, low survival rates, lysis and/or Embryo degeneration may occur.
- If S-Cryolock is dirty, discard it, DO NOT clean or wipe S-Cryolock tips with alcohol or equivalents, material properties may change.
- The long-term vitrification safety of oocytes and embryos on children born following this procedure is unknown.

### Precautions

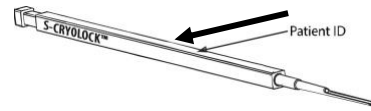
- The correct use of the device is responsibility of the user. For exclusive use of embryologists, biologists or laboratory technicians duly trained on cryopreservation techniques and vitrification protocols.
- For vitrification and warming purposes, have all necessary materials, tools and equipment ready and handy before starting procedures.
- For Laboratory use only. Not for diagnostic use.

**Storage Instructions:** Store at room temperature

**Disposable:** After each vial containing 5 devices is opened, all S-Cryolocks need to be used or discarded. S-Cryolock® is for single use only.

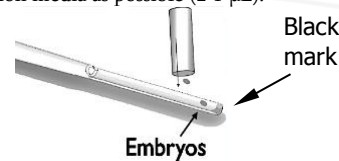
## LOADING AND CLOSING

1. Use a liquid nitrogen-resistant label to identify oocytes and embryos of the patients, using the label on the same surface where S-Cryolock® is engraved.



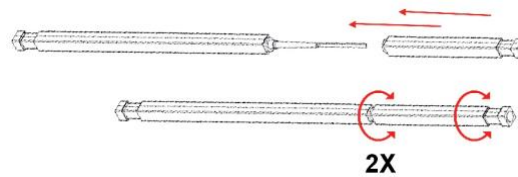
2. Prepare the sample for vitrification according to laboratory vitrification protocol.

3. Using a micropipette, carefully load a maximum of 2 specimens on the concave surface of the tip (same side of S-Cryolock® logo) and about 3mm (1/8") from the edge of tip (use black mark as a reference) removing any excess of cryo-protectant solution leaving as minimum volume of vitrification media as possible ( $\leq 1 \mu\text{L}$ ).

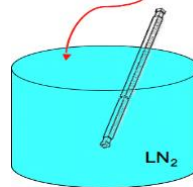


S-Cryolock Tip

4. Immediately immerse Tip and use the black mark of the Cap as a guidance for capping under LN<sub>2</sub>. Allow equilibration until stop bubbling. Carefully insert the tip into the cap twisting tightly enough until secure. Never throw uncapped S-Cryolocks containing specimens and leave unattended



5. Storage specimens on dewars following the laboratory vitrification protocol. Always store the S-Cryolock® with the cap facing down.



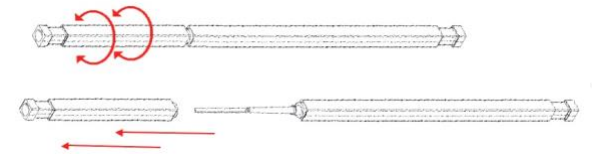
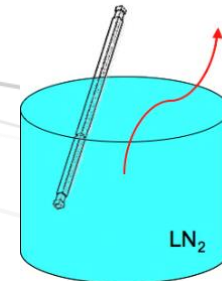
**Note:** Perform steps 3 to 5 in less than 1 minute.

After vitrification, S-Cryolock® must be kept under liquid nitrogen at all times.

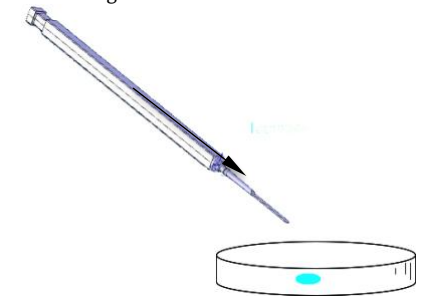
## WARMING

1. Prepare the warming solutions according to laboratory vitrification protocol.
2. Identify the sample to be thawed.
3. Place the warming solution under microscopic view.

4. Using forceps hold the upper extreme of the S-Cryolock® body and then quickly remove the cap with a gentle twist pulling the cap straight and away from the S-Cryolock body until release, never bend Cryolock body or cap.



5. Immediately plunge the tip of S-Cryolock® with specimens facing up into the warming solution at 37°C.



6. Under microscopic observation, gently move the S-Cryolock® until embryos are released from the tip.

7. Continue the warming according to laboratory vitrification / warming protocol.

8. Discard S-Cryolock after completion of procedure.

**Note:** Transition between steps 4 to 5 should be no longer than 5 seconds.